

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 20012860

(43) Date of publication of application: 12.10.2

(51) Int. Cl. H02J 9/06  
H02J 9/00, H02M 7/48

(21) Application number: 2000094306

(22) Date of filing: 30.03.2000

(71) Applicant: TOKYO GAS CO LTD

(72) Inventor: TAMURA TOYOICHI

## (54) UNINTERRUPTIBLE POWER SUPPLY SYSTEM

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To supply stable power to an important load without any short interruption also when an upstream open mode occurs when a load is connected in parallel with a serial/parallel compensation instantaneous drop countermeasure system.

**SOLUTION:** This uninterruptible power supply system is provided with a power supply 60, an important load 70 that does not allow instantaneous drop of power that is fed from the power system 60, and the series/parallel compensation instantaneous drop countermeasure system that consists of a parallel transformer 40 that is inserted in parallel with the power line that is provided between the power system 60 and the important load 70, a series transformer 50 that is connected in series with the power line, a parallel compensation converter 10 that is connected to the parallel transformer, a series compensation inverter 20 that is connected to the series transformer, and a power storage medium 30 that is connected between the parallel compensation converter and the series compensation inverter, and copes with instantaneous power drop and power failure. Also, the interruptible power supply sys-

tem is provided with an input switch 80 for b between the power system 60 and the series/parallel compensation instantaneous drop countermeasure system when detecting an open fault at a power system side or the overload or overcurrent of the compensation converter.

COPYRIGHT: (C)2001,JPO

